

GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF CONTRACT ADMINISTRATION  
SPONSORED PROJECT INITIATION

Date: 7/23/79

Project Title: Non-Heme Iron Oxygenase Catalysis

Project No: G-33-H03

*Green card*

Project Director: Dr. Sheldon W. May

Sponsor: DHEW/PHS/NIH - National Institute of General Medical Sciences

Agreement Period: From 9/1/79 Until 8/31/80 (03 Year)

Type Agreement: Grant No. 5 R01 GM23474-03

Amount: \$ 61,766 New PHS Funds (G-33-H03)  
3,730 GIT Contribution (G-33-345)  
\$ 65,496 Total

Reports Required: Annual Progress Reports with Continuation Applications  
Terminal Progress Report upon Grant Expiration

Sponsor Contact Person (s):

Technical Matters

Program Administrator: Dr. Eugene J. Oliver  
301/496-7518  
Program Official: Arthur E. Heming, PhD.  
Associate Director for Program Activities  
National Institute of General Medical Sciences  
Bethesda, MD 20014

Contractual Matters

(thru OCA)

Evelyn W. Carlin  
Grants Management Officer  
Office of Assoc. Director for Program  
Activities  
National Institute of General Medical  
Sciences  
Bethesda, MD 20014

NOTE: FOLLOW-ON PROJECT TO G-33-H02

Ruth C. Monaghan  
Grants Management Specialist  
301/496-7746

Defense Priority Rating: None

Assigned to: Chemistry (School/Laboratory)

COPIES TO:

Project Director  
Division Chief (EES)  
School/Laboratory Director  
Dean/Director-EES  
Accounting Office  
Procurement Office  
Security Coordinator (OCA)  
✓ Reports Coordinator (OCA)  
Property Coordinator (OCA)

Library, Technical Reports Section  
EES Information Office  
EES Reports & Procedures  
Project File (OCA)  
Project Code (GTRI)  
Other \_\_\_\_\_

2-N-1  
SP484 191

GEORGIA INSTITUTE OF TECHNOLOGY  
OFFICE OF CONTRACT ADMINISTRATION  
SPONSORED PROJECT TERMINATION

Date: August 20, 1981

Project Title: Non-Heme Iron Oxygenase Catalysis

Project No: G-33-H03

Project Director: Dr. Sheldon W. May

Sponsor: DHEW/PHS/NIH - National Institute of General Medical Sciences

Effective Termination Date: 8/31/80

Clearance of Accounting Charges: ----

Grant/Contract Closeout Actions Remaining:

NONE

- ☐ Final Invoice and Closing Documents
- ☐ Final Fiscal Report
- ☒ Final Report of Inventions
- ☐ Govt. Property Inventory & Related Certificate
- ☐ Classified Material Certificate
- ☐ Other

NOTE: Continued by G-33-H04 (04 year)

Assigned to: Chemistry (School) Library (Library)

COPIES TO:

Administrative Coordinator  
Research Property Management  
Accounting Office  
Procurement Office  
Research Security Services  
~~Reports Coordinator (OCA)~~

Legal Services (OCA)  
Library, Technical Reports  
EES Research Public Relations (2)  
Project File (OCA)  
Other:

## SECTION I

DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE

LEAVE BLANK

TYPE PROGRAM NUMBER

REVIEW GROUP

FORMERLY

COUNCIL (Month, Year)

DATE RECEIVED

## GRANT APPLICATION

TO BE COMPLETED BY PRINCIPAL INVESTIGATOR (Items 1 through 7 and 15A)

1. TITLE OF PROPOSAL (Do not exceed 53 typewriter spaces)

NON-HEME IRON OXYGENASE CATALYSIS

2. PRINCIPAL INVESTIGATOR

3. DATES OF ENTIRE PROPOSED PROJECT PERIOD (This application)

2A. NAME (Last, First, Initial) (Co-Principal Invest.  
MAY, Sheldon W. Ronald H. Felton)

FROM

September 1, 1980

THROUGH

August 31, 1983

2B. TITLE OF POSITION

4. TOTAL DIRECT COSTS REQUESTED FOR PERIOD IN ITEM 3

\$284,263

5. DIRECT COSTS REQUESTED FOR FIRST 12-MONTH PERIOD

\$84,750

Associate Professor of Chemistry

2C. MAILING ADDRESS (Street, City, State, Zip Code)

School of Chemistry  
Georgia Institute of Technology  
Atlanta, Georgia 30332

6. PERFORMANCE SITE(S) (See Instructions)

School of Chemistry  
Georgia Institute of Technology  
Atlanta, Georgia 30332

2D. DEGREE

Ph.D.

2E. SOCIAL SECURITY NO.

320-44-5583

2F. TELEPHONE AREA CODE TELEPHONE NUMBER AND EXTENSION  
404 894-4052

2G. DEPARTMENT, SERVICE, LABORATORY OR EQUIVALENT (See Instructions)

School of Chemistry

2H. MAJOR SUBDIVISION (See Instructions)

College of Science and Liberal Studies

7. Research Involving Human Subjects (See Instructions)

A. ☒ NO B. ☐ YES Approved: \_\_\_\_\_C. ☐ YES - Pending Review

Date

8. Inventions (Renewal Applicants Only - See Instructions)

A. ☒ NO B. ☐ YES - Not previously reportedC. ☐ YES - Previously reported

TO BE COMPLETED BY RESPONSIBLE ADMINISTRATIVE AUTHORITY (Items 8 through 13 and 15B)

9. APPLICANT ORGANIZATION(S) (See Instructions)

Georgia Institute of Technology  
Atlanta, Georgia 30332

11. TYPE OF ORGANIZATION (Check applicable item)

☐ FEDERAL ☒ STATE ☐ LOCAL ☐ OTHER (Specify)

12. NAME, TITLE, ADDRESS, AND TELEPHONE NUMBER OF OFFICIAL IN BUSINESS OFFICE WHO SHOULD ALSO BE NOTIFIED IF AN AWARD IS MADE

Frank H. Huff  
Comptroller  
Georgia Institute of Technology  
Atlanta, Georgia 30332

Telephone Number 404/894-4622

10. NAME, TITLE, AND TELEPHONE NUMBER OF OFFICIAL(S) SIGNING FOR APPLICANT ORGANIZATION(S)

Dwight L. Allen  
Deputy Director  
Office of Contract Administration  
Georgia Institute of Technology  
Atlanta, Georgia 30332  
Telephone Number (s) 404 894-4819

13. IDENTIFY ORGANIZATIONAL COMPONENT TO RECEIVE CREDIT FOR INSTITUTIONAL GRANT PURPOSES (See Instructions)

20 Other (Chemistry)

14. ENTITY NUMBER (Formerly PHS Account Number)

1586002023A1

15. CERTIFICATION AND ACCEPTANCE. We, the undersigned, certify that the statements herein are true and complete to the best of our knowledge and accept, as to any grant awarded, the obligation to comply with Public Health Service terms and conditions in effect at the time of the award.

SIGNATURES

(Signatures required on original copy only.  
Use ink, "Per" signatures not acceptable)

A. SIGNATURE OF PERSON NAMED IN ITEM 2A

DATE

B. SIGNATURE(S) OF PERSON(S) NAMED IN ITEM 10

DATE

6-33-1403

SECTION 1

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE

LEAVE BLANK

PROJECT NUMBER

RESEARCH OBJECTIVES

NAME AND ADDRESS OF APPLICANT ORGANIZATION

School of Chemistry, Georgia Institute of Technology, Atlanta, Georgia 30332

NAME, SOCIAL SECURITY NUMBER, OFFICIAL TITLE, AND DEPARTMENT OF ALL PROFESSIONAL PERSONNEL ENGAGED ON PROJECT, BEGINNING WITH PRINCIPAL INVESTIGATOR

Principal Investigator: Dr. Sheldon W. May (320-44-5583) Associate Professor of Chemistry  
Co-Principal Investigator: Dr. Ronald H. Felton (577-52-4928) Professor of Chemistry  
Postdoctoral Research Associate: Dr. Robert S. Phillips (257-72-8095) Research Associate  
Postdoctoral Research Associate: Dr. W. Lee Barrow (252-86-1182) Research Associate

All Personnel in School of Chemistry

TITLE OF PROJECT

NON-HEME IRON OXYGENASE CATALYSIS

USE THIS SPACE TO ABSTRACT YOUR PROPOSED RESEARCH. OUTLINE OBJECTIVES AND METHODS. UNDERSCORE THE KEY WORDS (NOT TO EXCEED 10) IN YOUR ABSTRACT.

Non-heme-iron containing oxygenases have been shown to be involved in a large number of metabolic processes in both mamalian and bacterial systems. The broad objective of this proposed research program is to continue our analysis of the involvement of non-heme iron in the catalytic pathway of bacterial dioxygenases, and to initiate comparative studies with the mamalian non-heme iron-containing monooxygenase phenylalanine hydroxylase. In these studies, we will utilize (1) Physical techniques such as resonance Raman, and EXAFS; (2) Chemical techniques such as the design of transition state analogs and other active-site directed ligands, metal replacement and chemical modification; and (3) Rapid reaction kinetic techniques.

LEAVE BLANK